

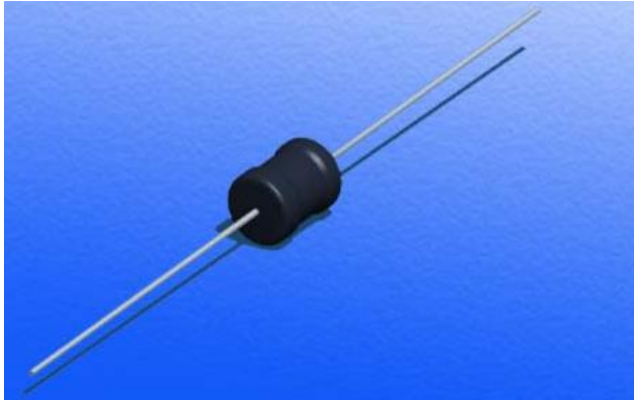


**IAL SERIES**  
**Axial Lead Inductors**



**DESCRIPTION**

The IAL Series is a general-purpose range of inductors suitable for low to medium current applications. Their small footprint makes them ideal for high-density applications where a chip inductor will not cope with the power requirement.



**FEATURES**

- ▶ Axial Format
- ▶ Up to 1.62A IDC
- ▶ 10μH to 68mH
- ▶ Low DC Resistance
- ▶ Miniature Size
- ▶ PCB Mounting
- ▶ MIL-I-23053/5 Class III Slewing
- ▶ Fully Tinned Leads
- ▶ Supplied in Bags of 100
- ▶ Custom Parts Available

**SELECTION GUIDE**

Order Code	Inductance ±10% (at 1kHz)	DC Resistance [max]	DC Current Continuous[max]	Nominal Q at f kHz		Nominal Self Resonant Frequency
	μH	Ω	A	Q	f	MHz
IAL103	10.0	0.05	1.62	40	1000	21.2
IAL153	15.0	0.07	1.35	30	500	19.4
IAL223	22.0	0.09	1.08	30	500	17
IAL333	33.0	0.14	0.90	25	500	11.4
IAL473	47.0	0.22	0.77	25	500	10.9
IAL683	68.0	0.28	0.77	70	100	10.6
IAL104	100.0	0.39	0.67	65	100	8.9
IAL154	150.0	0.54	0.52	80	100	6.2
IAL224	220.0	0.83	0.43	90	100	5.4
IAL334	330.0	1.21	0.38	95	100	4.5
IAL474	470.0	1.65	0.31	100	100	3.2
IAL684	680.0	2.64	0.25	105	100	3.0
IAL105	1mH	3.63	0.17	120	100	2.5
IAL155	1.5mH	6.49	0.13	130	100	2.1
IAL225	2.2mH	8.58	0.11	130	50	1.9
IAL335	3.3mH	10.0	0.10	125	150	1.2
IAL475	4.7mH	13.2	0.081	130	150	0.95
IAL685	6.8mH	22.0	0.072	135	150	0.85
IAL106	10.0mH	37.4	0.063	140	150	0.62
IAL156	15.0mH	49.5	0.054	145	150	0.51
IAL226	22.0mH	82.5	0.045	100	50	0.34
IAL336	33.0mH	110.0	0.036	90	50	0.28
IAL476	47.0mH	154.0	0.027	80	50	0.25
IAL686	68.0mH	242.0	0.018	70	50	0.20

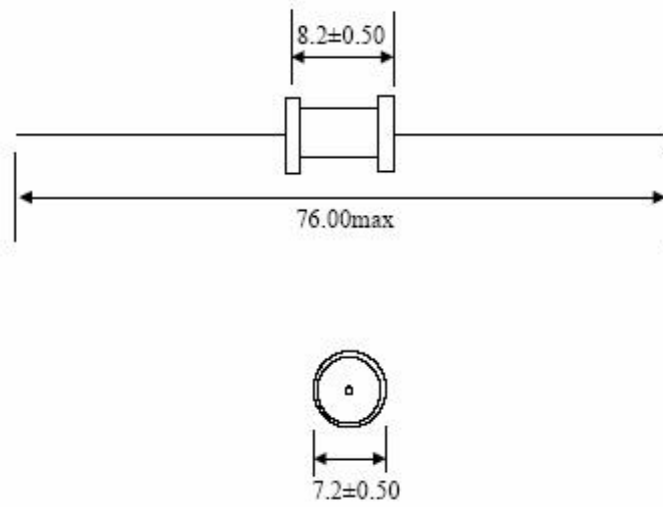
**TYPICAL CORE CHARACTERISTICS**

Inductance Temperature Coefficient	Resistance Temperature Coefficient	Curie Temperature Tc	Saturation Flux B <sub>SAT</sub>
350ppm	3900ppm	190°C	325mT

### ABSOLUTE MAXIMUM RATINGS

Operating free air temperature range	-25°C to 70°C
Storage temperature range	-40°C to 125°C
Specifications typical at $T_A=25^\circ\text{C}$	

### MECHANICAL DIMENSIONS



Note: Pin diameters are  $0.60 \pm 0.10$  mm; all dimensions in mm.